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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicants: Rabinovich *et al.*

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Serial No: 09/683,185

Examiner: D. Yee

Filed: 29 November 2001

Art Unit: 1742

Title: Method and Apparatus for Heat
Treating Material

Date: 23 January 2003

Commissioner of Patents
Washington, DC 20231

Sir:

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JAN 24 2003
GROUP 1700

Applicants wish to amend the Application as set forth, in clean form, below. A version of the
amendments with markings to show changes made appears as Attachment "A."

IN THE SPECIFICATION:Amend paragraph numbers 41, 59 and 60 as follows.

2

[0041] Figures 4 and 5 display one of the pipes 109. The pipe 109 is annular to provide
axisymmetric cooling to the annular forging F. The pipes 109 can be made from any suitable
material, such as tooling steel (*e.g.* AMS5042, AMS5062, AISI4340), stainless steel (AISI310,
AISI316, 17-4HP), copper and brass. As an example, the pipes 109 could have an inner diameter of
between approximately 0.7" and 1.3" and have a suitable thickness. The specific values will depend
upon the demands of the quenching process.

2

[0059] The present invention can locally adjust impingement cooling by varying any of the
aforementioned characteristics. For example, one can selectively adjust cooling to desired areas of